


```
RRRRRRRR  MM      MM      333333  CCCCCCCC  LL      000000  SSSSSSSS  EEEEEEEEE
RRRRRRRR  MM      MM      333333  CCCCCCCC  LL      000000  SSSSSSSS  EEEEEEEEE
RR      RR  MMMM  MMMM  33      33  CC      LL      LL      00      00  SS      EE
RR      RR  MMMM  MMMM  33      33  CC      LL      LL      00      00  SS      EE
RR      RR  MM      MM      33      33  CC      LL      LL      00      00  SS      EE
RRRRRRRR  MM      MM      33      33  CC      LL      LL      00      00  SSSSSS  EEEEEEE
RRRRRRRR  MM      MM      33      33  CC      LL      LL      00      00  SSSSSS  EEEEEEE
RR      RR  MM      MM      33      33  CC      LL      LL      00      00  SS      EE
RR      RR  MM      MM      33      33  CC      LL      LL      00      00  SS      EE
RR      RR  MM      MM      33      33  CC      LL      LL      00      00  SS      EE
RR      RR  MM      MM      333333  CCCCCCCC  LLLLLLLLLL  000000  SSSSSSSS  EEEEEEEEE
RR      RR  MM      MM      333333  CCCCCCCC  LLLLLLLLLL  000000  SSSSSSSS  EEEEEEEEE
                                                                ....
                                                                ....
                                                                ....
                                                                ....
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLL  IIIIII  SSSSSSSS
```

```
0001 0
0002 0 MODULE RM3CLOSE (LANGUAGE (BLISS32) ,
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0011 1 * ALL RIGHTS RESERVED.
0012 1 *
0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0018 1 * TRANSFERRED.
0019 1 *
0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0022 1 * CORPORATION.
0023 1 *
0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1 ++
0031 1
0032 1 FACILITY: RMS32 INDEX SEQUENTIAL FILE ORGANIZATION
0033 1
0034 1 ABSTRACT:
0035 1 INDEXED SPECIFIC CODE FOR $CLOSE
0036 1
0037 1
0038 1 ENVIRONMENT:
0039 1
0040 1 VAX/VMS OPERATING SYSTEM
0041 1
0042 1 --
0043 1
0044 1
0045 1 AUTHOR: Wendy Koenig CREATION DATE: 11-APR-78 13:39
0046 1
0047 1
0048 1 MODIFIED BY:
0049 1
0050 1 V03-004 MCN0003 Maria del C. Nasr 15-Mar-1983
0051 1 More linkages reorganization
0052 1
0053 1 V03-003 MCN0002 Maria del C. Nasr 24-Feb-1983
0054 1 Reorganize linkages.
0055 1
0056 1 V03-002 MCN0001 Maria del C. Nasr 08-Nov-1982
0057 1 Return any index descriptors if file opened for block
```



```
58      0058 1  I/O since now the prologue and all descriptors are
59      0059 1  processed during create with BIO set.
60      0060 1
61      0061 1  V03-001 KBT0157      Keith B. Thompson      21-Aug-1982
62      0062 1  Reorganize psects
63      0063 1
64      0064 1  V02-005 CDS0002      C D Saether      06-Aug-1981
65      0065 1  Change linkage to only use ifab and impure area.
66      0066 1
67      0067 1  V02-004 CDS0001      C D Saether      16-Jul-1981
68      0068 1  Do not deallocate nrp on indirect close.
69      0069 1
70      0070 1  V02-099 REFORMAT      Ken Henderson      29-Jul-1980
71      0071 1  The code was reformatted.
72      0072 1
73      0073 1  REVISION HISTORY:
74      0074 1
75      0075 1  Wendy Koenig,      24-OCT-78  14:01
76      0076 1  X0002 - make changes caused by sharing conventions
77      0077 1
78      0078 1  *****
79      0079 1
80      0080 1  LIBRARY 'RMSLIB:RMS';
81      0081 1
82      0082 1  REQUIRE 'RMSSRC:RMSIDXDEF';
83      0147 1
84      0148 1
85      0149 1  define default psects for code
86      0150 1
87      0151 1
88      0152 1  PSECT
89      0153 1  CODE = RMSRMS3(PSECT_ATTR),
90      0154 1  PLIT = RMSRMS3(PSECT_ATTR);
91      0155 1
92      0156 1
93      0157 1  Linkages
94      0158 1
95      0159 1
96      0160 1  LINKAGE
97      0161 1  L_LINK 7_10_11,
98      0162 1  L_RETSPC;
99      0163 1
100     0164 1
101     0165 1  External Routines
102     0166 1
103     0167 1
104     0168 1  EXTERNAL ROUTINE
105     0169 1  RMSRETBK : RL$RETSPC;
106     0170 1
```

```
0171 1 GLOBAL ROUTINE RMSCLOSE3 : RL$LINK_7_10_11 =
0172 1
0173 1 ++
0174 1
0175 1 FUNCTIONAL DESCRIPTION:
0176 1
0177 1     If this is the last accessor of the file, deallocate all of the index
0178 1     descriptors ( off the IFAB) and zero the pointer.
0179 1
0180 1 CALLING SEQUENCE:
0181 1     BSBW    RMSCLOSE3
0182 1     entered via branch from RMSCCLOSE and will RSB back to CLSDLT
0183 1
0184 1 INPUT PARAMETERS:
0185 1     NONE
0186 1
0187 1 IMPLICIT INPUTS:
0188 1     R10 -- IFAB address
0189 1     R11 -- IMPURE AREA address
0190 1
0191 1 OUTPUT PARAMETERS:
0192 1     NONE
0193 1
0194 1 IMPLICIT OUTPUTS:
0195 1     NONE
0196 1
0197 1 ROUTINE VALUE:
0198 1     usual RMS status codes, especially SUC
0199 1
0200 1 SIDE EFFECTS:
0201 1     if they existed, the index descriptors will be deallocated
0202 1
0203 1 --
0204 1
0205 1 ! ***** right now there is no way of telling if this is the last user
0206 1 ! ***** has to be taken care of when files are done      if this is the
0207 1 ! last accessor of the file, deallocate all of the index    descriptors ( off
0208 1 ! the IFAB) and zero the pointer. *****
0209 1
0210 2 BEGIN
0211 2
0212 2 EXTERNAL REGISTER
0213 2     R_IFAB_STR,
0214 2     R_IMPURE;
0215 2
0216 2 LOCAL
0217 2     PTR : REF BBLOCK,
0218 2     NEXT;
0219 2
0220 2 ! Return on indirect close.
0221 2 !
0222 2
0223 2 IF .IFAB[IFB$V_PPF_IMAGE]
0224 2 THEN
0225 2     RETURN RMSSUC();
0226 2
0227 2 PTR = .IFAB[IFB$L_IDX_PTR];
```

RM3CLOSE
V04-000

G 15
16-Sep-1984 01:38:30
14-Sep-1984 13:01:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RMS.SRC]RM3CLOSE.B32;1 Page 4 (2)

```

: 165      0228 2
: 166      0229
: 167      0230
: 168      0231
: 169      0232
: 170      0233
: 171      0234
: 172      0235
: 173      0236
: 174      0237
: 175      0238
: 176      0239
: 177      0240 1

      WHILE .PTR NEQ 0
      DO
        BEGIN
          NEXT = .PTR[IDX$L,IDX$FL];
          RMS$RETBK ( 0, .IFAB, .PTR );
          PTR = .NEXT;
        END;
      IFAB[IFB$L,IDX,PTR] = 0;
      RETURN RMSSUC( )
    END;
```

```

.TITLE RM3CLOSE
.IDENT  \V04-000\
.EXTRN  RMS$RETBK
.PSECT  RMSRMS3,NOWRT, GBL, PIC,2
```

			007C	8F	BB	00000	RM\$CLOSE3::		
							PUSHR	#^M<R2,R3,R4,R5,R6>	: 0171
1B	04	AA		02	E0	00004	BBS	#2, 4(IFAB), 3\$: 0223
		54	00AC	CA	D0	00009	MOVL	172(IFAB), PTR	: 0227
				10	13	0000E	BEQL	2\$: 0229
		56		64	D0	00010	MOVL	(PTR), NEXT	: 0232
		53		5A	D0	00013	MOVL	IFAB, R3	: 0233
				52	D4	00016	CLRL	R2	
				0000G	30	00018	BSBW	RMS\$RETBK	
		54		56	D0	0001B	MOVL	NEXT, PTR	: 0234
				EE	11	0001E	BRB	1\$: 0229
			00AC	CA	D4	00020	CLRL	172(IFAB)	: 0237
		50		01	D0	00024	MOVL	#1, R0	: 0238
			007C	8F	BA	00027	POPR	#^M<R2,R3,R4,R5,R6>	: 0240
					05	0002B	RSB		

: Routine Size: 44 bytes, Routine Base: RMSRMS3 + 0000

```

: 178      0241 1
: 179      0242 1 END
: 180      0243 1
: 181      0244 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
RMSRMS3	44	NOVEC,NOWRT, RD , EXE,NOSHR, GBL, REL, CON, PIC,ALIGN(2)

RM3CLOSE
V04-000

H 15
16-Sep-1984 01:38:30
14-Sep-1984 13:01:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RMS.SRC]RM3CLOSE.B32;1 Page 5 (2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
;\$255\$DUA28:[RMS.OBJ]RMS.L32;1	3109	12	0	154	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RM3CLOSE/OBJ=OBJ\$:RM3CLOSE MSRC\$:RM3CLOSE/UPDATE=(ENH\$:RM3CLOSE)

: Size: 44 code + 0 data bytes
: Run Time: 00:02.8
: Elapsed Time: 00:12.2
: Lines/CPU Min: 5228
: Lexemes/CPU-Min: 10264
: Memory Used: 32 pages
: Compilation Complete

0323

AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY